

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. USFMC.R.133C1	APPLICATION NO. Unassigned
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Zha, et al.	
		FILING DATE Herewith	GROUP Unassigned

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	1	WO0136075	3/25/01	PCT				
	2	WO9607470	3/14/96	PCT				
VM	3	WO9822204	5/28/98	PCT				
	4	WO9706880	2/27/97	PCT				
	5	WO9828066	7/2/98	PCT				
	6	WO0018498	4/6/00	PCT				
	7	JP60-019002	1/31/85	Japan (abstract only)				x
	8	JP01-205055	7/31/01	Japan (abstract only)				x
	9	JP07-251043	10/3/95	Japan (abstract only)				x

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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
VM	10 International Preliminary Examination Report for PCT/AU02/01056 dated November 19, 2003

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EXAMINER	<i>KM</i>	DATE CONSIDERED	4-14-06
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application No. 10/774,041
 Filing Date February 6, 2004
 First Named Inventor Zha, et al.
 Art Unit 1723
 Examiner Menon, K.
 Attorney Docket No. USFMCR.133C1

(Multiple sheets used when necessary)

SHEET 1 OF 9

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	10/674,694	Filed 09-30-2003	Zha et al.	US Applications
	2	10/676,458	Filed 09-30-2003	Cox, et al.	
	3	10/759,560	Filed 01-15-2004	Zha et al.	
	4	10/822,036	Filed 04-08-2004	Zha et al.	
	5	10/894,191	Filed 04-19-2004	Zha et al.	
	6	10/903,516	Filed 07-29-2004	Muller, H.	
	7	10/903,809	Filed 07-29-2004	Muller, H.	
	8	10/903,950	Filed 07-30-2004	Muller, H.	
	9	10/914,640	Filed 08-09-2004	Mullette et al.	
KM	10	2001-0027951	10-11-2001	Gungerich et al.	
	11	2002-0148767	10-17-2002	Johnson et al.	
	12	2002-0153299	10-24-2002	Mahendran et al.	
	13	2002-0195390	12-26-2002	Zha et al.	
	14	2003-0136746	07-24-2003	Behman et al.	
	15	2003-0141248	07-31-2003	Mahendran et al.	
	16	2003-0164332	09-04-2003	Mahendran et al.	
	17	2003-0178365	09-25-2003	Zha et al.	
	18	2003-0226797	12-11-2003	Phelps	
	19	2003-0234221	12-25-2003	Johnson et al.	
	20	2004-0000520	01-01-2004	Gallagher et al.	
	21	2004-0035782	02-26-2004	Muller	
	22	2004-0168979	09-02-2004	Zha et al.	
	23	2004-0178154	09-16-2004	Zha et al.	
	24	2004-0191894	09-30-2004	Muller, et al.	
	25	2004-0217053	11-04-2004	Zha, et al.	
	26	2004-0232076	11-25-2004	Zha et al.	
	27	2004-0238431	12-02-2004	Johnson et al.	
	28	2004-0238442	12-02-2004	Johnson, et al.	
	29	3,228,876	01-11-1966	Mahon	

Examiner Signature

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Date Considered

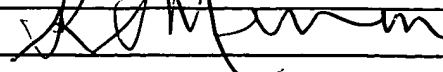
4-14-06

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SHEET 2 OF 9	Attorney Docket No.	USFMCR.133C1

U.S. PATENT DOCUMENTS					
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ICM	30	3,693,406	09-26-1972	Tobin	
	31	3,708,071	01-02-1973	Richard P. Crowley	
	32	3,968,192	06-07-1976	Hoffman et al.	
	33	3,992,301	11-16-1976	Shippey et al.	
	34	4,188,817	02-19-1980	Steigermann	
	35	4,192,750	03-11-1980	Elfes et al.	
	36	4,193,780	03-18-1980	Cotton et al.	
	37	4,218,324	08-19-1980	Hartmann et al.	
	38	4,248,648	02-03-1981	Kopp	
	39	4,353,802	10-12-1982	Hara et al.	
	40	4,384,474	05-24-1983	Kowalski	
	41	4,385,150	05-24-1983	Miyake et al.	
	42	4,451,369	05-29-1984	Sekino et al.	
	43	4,511,471	04-16-1985	Müller	
	44	4,540,490	09-10-1985	Shibata et al.	
	45	4,547,289	10-15-1985	Okano et al.	
	46	4,609,465	09-02-1986	Miller	
	47	4,614,109	09-30-1986	Hoffman	
	48	4,632,745	12-30-1986	Giuffrida et al.	
	49	4,636,296	01-13-1987	Kunz	
	50	4,642,182	02-10-1987	Drori	
	51	4,647,377	03-03-1987	Miura	
	52	4,650,596	03-17-1987	Ellis	
	53	4,656,865	04-14-1987	Callan	
	54	4,660,411	04-28-1987	Reid	
	55	4,670,145	06-02-1987	Edwards	
	56	4,673,507	06-16-1987	Brown	
	57	4,687,561	08-18-1987	Kunz	
	58	4,687,578	08-18-1987	Stookey, D.	

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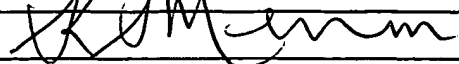
U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
KM	59	4,688,511	08-25-1987	Gerlach et al.	
	60	4,718,270	01-12-1988	Storr	
	61	4,744,240	05-17-1988	Reichelt	
	62	4,756,875	07-12-1988	Tajima et al.	
	63	4,763,612	08-16-1988	Iwanami	
	64	4,767,539	08-30-1988	Ford	
	65	4,779,448	10-25-1988	Gogins	
	66	4,784,771	11-15-1988	Wathen et al.	
	67	4,793,932	12-27-1988	Ford et al.	
	68	4,797,211	01-10-1989	Ehrfeld et al.	
	69	4,810,384	03-07-1989	Fabre	
	70	4,812,235	03-14-1989	Seleman et al.	
	71	4,816,160	03-28-1989	Ford et al.	
	72	4,846,970	07-11-1989	Bertelsen et al.	
	73	4,876,006	10-24-1989	Ohkubo et al.	
	74	4,876,012	10-24-1989	Kopp et al.	
	75	4,921,610	05-01-1990	Ford et al.	
	76	4,931,186	06-05-1990	Ford et al.	
	77	4,935,143	06-19-1990	Kopp et al.	
	78	4,969,997	11-13-1990	Kluver, et al.	
	79	4,999,038	03-12-1991	Lundberg	
	80	5,005,430	04-09-1991	Kibler et al.	
	81	5,024,762	06-18-1991	Ford et al.	
	82	5,066,375	11-19-1991	Parsi et al.	
	83	5,066,401	11-19-1991	Muller et al.	
	84	5,066,402	11-19-1991	Anselme et al.	
	85	5,069,065	12-03-1991	Sprunt et al.	
	86	5,076,925	12-31-1991	Roesink et al.	
	87	5,079,272	01-07-1992	Allegrezza, et al.	

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KM	88	5,094,750	03-10-1992	Kopp et al.	
	89	5,104,535	04-14-1992	Cote et al.	
	90	5,104,546	04-14-1992	Filson et al.	
	91	5,137,631	08-11-1992	Eckman, et al.	
	92	5,138,870	08-18-1992	Lyssy	
	93	5,151,191	09-29-1992	Sunaoka et al.	
	94	5,151,193	09-29-1992	Grobe et al.	
	95	5,158,721	10-27-1992	Allegrezza, et al.	
	96	5,182,019	01-26-1993	Cote et al.	
	97	5,192,456	03-09-1993	Ishida et al.	
	98	5,192,478	03-09-1993	Caskey, T.	
	99	5,194,149	03-16-1993	Selbie et al.	
	100	5,198,116	03-30-1993	Comstock et al.	
	101	5,209,852	05-11-1993	Sunaoka, et al.	
	102	5,211,823	05-18-1993	Giuffrida et al.	
	103	5,221,478	06-22-1993	Dhingra et al.	
✓	104	5,227,063	07-13-1993	Langerak, et al.	
	105	5,248,424	09-08-1993	Cote et al.	
	106	5,297,420	03-29-1994	Gilliland et al.	
	107	5,320,760	06-14-1994	Freund et al.	
	108	5,353,630	10-11-1994	Soda et al.	
	109	5,361,625	11-08-1994	Ylvisaker	
	110	5,364,527	11-15-1994	Zimmerman et al.	
	111	5,389,260	02-14-1995	Hemp	
	112	5,393,433	02-28-1995	Espenan et al.	
	113	5,401,401	03-28-1995	Hickok	
	114	5,403,479	04-04-1995	Smith et al.	
	115	5,405,528	04-11-1995	Selbie et al.	
	116	5,417,101	05-23-1995	Weich	

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JCM	117	5,419,816	05-30-1995	Sampson et al.	
	118	5,470,469	11-28-1995	Eckman	
	119	5,477,731	12-26-1995	Mouton	
	120	5,480,553	01-02-1996	Yamamori et al.	
	121	5,531,848	07-02-1996	Brinda et al.	
	122	5,531,900	07-02-1996	Raghaven et al.	
	123	5,543,002	08-06-1996	Brinda et al.	
	124	5,554,283	09-10-1996	Brinda et al.	
	125	5,607,593	03-04-1997	Cote et al.	
	126	5,639,373	06-17-1997	Mahendran et al.	
	127	5,643,455	07-01-1997	Kopp et al.	
	128	5,677,360	10-14-1997	Yamamori, et al.	
	129	5,783,083	07-21-1998	Henshaw et al.	
	130	5,906,742	05-25-1999	Wang et al.	
	131	5,910,250	06-08-1999	Mahendran et al.	
	132	5,914,039	06-22-1999	Mahendran	
	133	5,918,264	06-29-1999	Drummond et al.	
	134	5,942,113	08-24-1999	Morimura	
	135	5,944,997	08-31-1999	Pedersen et al.	
	136	6,024,872	02-15-2000	Mahendran	
	137	6,039,872	03-21-2000	Wu et al.	
	138	6,042,677	03-28-2000	Mahendran et al.	
	139	6,048,454	04-11-2000	Jenkins	
	140	6,077,435	06-20-2000	Beck et al.	
	141	6,083,393	07-07-2000	Wu et al.	
	142	6,146,747	11-14-2000	Wang et al.	
	143	6,156,200	12-05-2000	Zha et al.	
	144	6,159,373	12-12-2000	Beck et al.	
	145	6,193,890	02-27-2001	Pederson et al.	

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KJM	146	6,202,475	03-20-2001	Selbie et al.	
	147	6,221,247	04-24-2001	Nemser et al.	
	148	6,245,239	06-12-2001	Cote et al.	
	149	6,254,773	07-03-2001	Biltoft	
	150	6,264,839	07-24-2001	Mohr et al.	
	151	6,294,039	09-25-2002	Mahendran et al.	
	152	6,303,035	10-16-2001	Cote et al.	
	153	6,354,444	03-12-2002	Mahendran	
	154	6,440,303	08-27-2002	Spiegel	
	155	6,524,481	02-25-2003	Zha et al.	
	156	6,550,747	04-22-2003	Rabie et al.	
	157	6,555,005	04-29-2003	Zha et al.	
	158	6,620,319	09-16-2003	Behmann et al.	
	159	6,641,733	11-04-2003	Zha et al.	
	160	6,645,374	11-11-2003	Cote et al.	
	161	6,783,008	08-31-2004	Zha et al.	
	162	6,821,420	11-23-2004	Zha et al.	
	163	D396,046	07-14-1998	Scheel et al.	
	164	D396,726	08-04-1998	Sadr et al.	
	165	D400,890	11-10-1998	Gambardella	
✓	166	D462,699	09-10-2002	Johnson et al.	
	167	D478,913	08-26-2003	Johnson, et al.	
	168	H1,046	05-05-1992	Wilson	
	169	RE37,549	02-19-2002	Mahendran et al.	

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	170	DE 3904544 A	08-16-1990	Fraunhofer-Gesellschaft zur Foerderung der angewandten Forschung eV	English language abstract	
	171	DE 4117281 A	01-02-1992	Chemie AG Bitterfeld-Wolfen	English language abstract	
	172	DE 4117422 A	11-12-1992	Dettinger, Willi	English language abstract	
ICM	173	EP 1052012 A1	11-15-1900	Asahi Kasei Kogyo Kabushiki Kaisha		
ICM	174	EP 1350555 A1	10-08-2003	TORAY INDUSTRIES, INC.		
	175	EP 250337 A1	12-23-1987	RHONE-POULENC RECHERCHES	English language abstract	
	176	EP 327025 A	08-09-1989	Sartorius GmbH	English language abstract	
ICM	177	EP 395133 A1	02-01-1995	X-Flow B.V.		
	178	EP 407900 A2	01-16-1991	Akzo N.V.	English language abstract	
ICM	179	EP 430082 A2	06-19-1996	MILLIPORE CORPORATION		
ICM	180	EP 463827 A	01-02-1992	CHEMIE AG BITTERFELD- WOLFEN	English language abstract	
KM	181	EP 50447 A	10-02-1985	ASAHI GLASS COMPANY LTD.		
KM	182	EP 763758 A1	10-02-1996	KOH GIKEN Co., Ltd.		
ICM	183	EP 911073 A1	04-28-1999	Pall Corporation		
ICM	184	EP 920904 A1	06-09-1999	PRAXAIR TECHNOLOGY, INC.		
	185	FR 2620712 A1	03-24-1989	PENNWALT CORP	English language abstract	
	186	FR 2674448 A1	02-10-1992	DUMEZ LYONNAISE EAUX	English language abstract	
ICM	187	GB 2253572 A	09-16-1992	ALJAC ENGINEERING LIMITED		
ICM	188	JP 01-307409 A2	12-12-1989	DAICEL CHEM IND LTD	English language abstract	
ICM	189	JP 02-164423 A2	06-25-1990	TOSHIBA CORP	English language abstract	
KM	190	JP 02-284035 A2	11-21-1990	TOYOBO CO LTD	English language abstract	

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KM	191	JP 03-018373 A2	01-25-1991	TERUMO CORP	English language abstract	
	192	JP 03-028797 A2	02-06-1991	EBARA CORP	English language abstract	
	193	JP 03-110445 A2	05-10-1991	FUJI PHOTO FILM CO LTD	English language abstract	
	194	JP 04-310223 A2	11-01-1992	ASAHI CHEM IND CO LTD	English language abstract	
	195	JP 05-023557 A2	02-02-1993	ASAHI CHEM IND CO LTD	English language abstract	
	196	JP 05-157654 A2	06-25-1993	ASAHI CHEM IND CO LTD	English language abstract	
	197	JP 06-277469 A	10-04-1994	Kurita Water Ind. Ltd.	English language abstract	
KM	198	JP 06-071120 A2	03-15-1994	AKAI ELECTRIC CO LTD	English language abstract	
	199	JP 06-114240 A2	04-26-1994	TORAY IND INC	English language abstract	
	200	JP 07-000770 A2	01-06-1995	TOSHIBA CORP	English language abstract	
	201	JP 07-275665 A2	10-24-1995	MITSUBISHI RAYON CO LTD	English language abstract	
	202	JP 08-010585 A2	01-16-1996	ISHIGAKI MECH IND CO	English language abstract	
	203	JP 09-141063 A2	06-06-1997	MITSUBISHI RAYON CO LTD	English language abstract	
	204	JP 10-156149 A2	06-16-1998	NOK CORP	English language abstract	
	205	JP 11-319507 A	02-29-2000	Toray Ind. Inc.	English language abstract	
	206	JP 21-44132 A2	06-01-1990	MITSUBISHI RAYON CO LTD	English language abstract	
	207	JP 58-088007 A2	05-26-1983	ASAHI GLASS CO LTD	English language abstract	
	208	JP 61-097006 A2	05-15-1986	DAICEL CHEM IND LTD	English language abstract	

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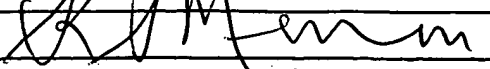
T¹ - Place a check mark in this area when an English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	10/774,041
	Filing Date	February 6, 2004
	First Named Inventor	Zha, et al.
	Art Unit	1723
(Multiple sheets used when necessary)	Examiner	Menon, K.
SHEET 9 OF 9	Attorney Docket No.	USFMCR.133C1

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Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
KM	209	JP 61-107905 A2	05-26-1986	TOSHIBA CORP	English language abstract	
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	220	WO 99/59707	11-25-1999	USF FILTRATION AND SEPARATIONS GROUP INC.		

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Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹	
Kem	221	Almulla et al., Desalination 153 (2002) 237-243.		
↓	222	Rosenberger et al., Desalination 151 (2002) 195-200.		
↓	223	Derwent Abstract Accession No. 2001-142268/15, Class A88, J01 JP, A1, 2000342932 (Mitsubishi Rayon Co. Ltd.), December 12, 2000.		

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